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With you every turn of the way™



Portable Turn-by-Turn Mapping GPS Operation Instructions



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WARNING!
A CAREFUL NAVIGATOR NEVER RELIES ON ONLY ONE METHOD TO OBTAIN POSITION INFORMATION.

CAUTION

When showing turn-by-turn navigation data, a GPS unit will show the shortest, most direct route to the destination. There are times when it may give directions, such as a U-turn, that may be prohibited in some locations. While navigating, a driver is responsible for noting all traffic signs and obeying all local traffic laws. When following turn-by-turn directions, a driver must take advantage of all available navigation tools, and must visually check to make sure a clear, safe path to the next destination is available.

WARNING!

When a GPS unit is used in a vehicle, the vehicle operator is solely responsible for operating the vehicle in a safe manner. Vehicle operators must maintain full surveillance of all pertinent driving conditions at all times. An accident or collision resulting in damage to property, personal injury or death could occur if the operator of a GPS-equipped vehicle fails to pay full attention to travel conditions and vehicle operation while the vehicle is in motion.

Do not attempt to configure, adjust or enter information into your GPS unit while driving.

Notes

Preface: Introducing GPS

And, how this manual can get you out on the road, fast!

Welcome to the exciting world of turn-by-turn GPS navigation! We know you're anxious to begin finding your way, but we have a favor to ask. Before you grab the iWAY™ 100m and begin installing it, please give us a moment or two to explain how our manual can help you get the best performance from your turn-by-turn mapping GPS receiver.

Our goal for this book is to get you on the road fast, with a minimum of fuss. Like you, we'd rather spend more time actually getting somewhere and less time reading about it in the manual!

So, we designed our book so that you *don't* have to read the *whole thing* from front to back for the information you want. At the start (or end) of each segment, we'll tell you what content is coming up next. If it's a concept you're already familiar with, we'll show you how and where to skip ahead for the next important topic. We've also made it easy to look up any tips you may need from time to time. Here's how:

The manual is organized into four sections. Section 1 will help you install the iWAY in your vehicle. We'll also show you how to add an MMC card containing your local map information. We'll finish by describing some of the available accessories.

Section 2 covers the Map Display and Map Menu Options. It will show you how easy it is to run the iWAY, right out of the box. This section features a one-page GPS Practice Run. **(If you've already jumped ahead and figured out how to install the unit yourself, and you just *can't* wait any longer, turn to the Practice Run on page 21 and head for the road with your GPS unit!)**

Section 3 describes the Main Menu Options, the commands used to configure things like screen brightness, sound levels and units of measure. We'll also show you how to use utilities like the Trip Calculator.

Finally, in Section 4, we'll go into detail on how to search for and navigate to points of interest, addresses and waypoints you've created. We'll also offer tips on how to understand and follow the automatic turn-by-turn routes that you've created. Before we go any further, we'd like to take just a moment to explain how the iWAY works.

How Lowrance GPS and the GPS System Work

You'll navigate a little easier if you understand the basics of how the iWAY 100m scans the sky to tell you where you are and where you're going. (If you already understand GPS receivers and the GPS system, skip on ahead to Section 1, *Installation & Accessories* on page 7.)

First, think of your unit as a small, highly automated computer. The iWAY 100m includes a keypad and on-screen menus so you can tell it what to do. The screen lets the unit show your location on a moving map, as well as point the way to your destination. A speaker built into the power cable lets you hear verbal turn-by-turn driving instructions.

An internal antenna tunes in to a couple of dozen GPS and WAAS satellites circling the earth. Your unit listens to signals from as many satellites as it can "see" above the horizon, then computes its location in relation to those satellites. The iWAY plots that position on the moving map shown on the screen.

To use the Turn-by-Turn routing that makes this unit so powerful, you'll need to create custom map files using the included MapCreate Turn-by-Turn software. You can use an MMC (MultiMedia Card) or SD (Secure Digital) Card flash memory card to store these high-detail, custom maps. MapCreate custom maps contain much greater detail than the basic background map. The iWAY automatically reads Custom Map Files directly from the MMC or SD Card. To use a custom map, all you need to do is slide an MMC containing a map into the unit. For details on using MapCreate to create these custom maps, consult the MapCreate documentation provided.

GPS stands for Global Positioning System, a navigational system that can accurately locate your position anywhere on the Earth. This technology is available to everyone, everywhere, 24 hours a day, in all weather conditions. GPS uses 24 satellites orbiting 10,900 miles above the Earth to transmit position data back to Earth. A GPS receiver processes that data to tell you where you are.

For the system to work, the unit must have a clear view of the satellites in order to receive their signals. Unlike radio or television signals, GPS works at very high frequencies. These signals can be easily blocked by trees, buildings, an automobile roof, even your body.

If you would like to know more about GPS and its companion system WAAS, visit our web site and check out the GPS Product Guide section (www.lowrance.com/Support/gps.asp). It includes a GPS tutorial, frequently asked questions and a glossary.

NOTE:

You'll control the iWAY with the keyboard below the screen. In this manual, all the keypad "keystrokes" appear as boldface type. So, if you're in a real hurry when you're looking up instructions (or if you just need a reminder), you can skim the instructions and pick out what menu command to use by finding the boldface command text.

Section 1:

Installation & Accessories

This section describes the various accessories and cables that came with your iWAY, and exactly how to use them. Some of the most important information in this section is how to connect the iWAY to your car's stereo, and how to use the MMC card to get your map information onto the iWAY.

If you need help using any of these accessories, look through this section. Otherwise, move on to *Section 2: The Map Display and Map Menu Options* beginning on page 15. You can also turn to the beginning of Sec. 3 on page 31 if you'd rather start learning about more advanced setup options.

Power

The iWAY operates from AA batteries or on 3 volts DC using an external power cable with a cigarette lighter adapter and speaker. When the power cable is used, the iWAY automatically switches to it if the external power is greater than the battery voltage. If the external power fails, the unit automatically switches to the batteries.

Flash memory will keep your stored data safe and accessible for the life of the product — after the unit is turned off, no battery or external power is needed to store your data.

Batteries

The unit requires two, 1.5 volt AA batteries. We recommend that you use alkaline batteries for the best trade-off between battery life and cost. We recommend DURACELL[®] brand, but other brands will work. If you're looking for an extended-life battery, the Duracell[®] ULTRA battery has performed well in our tests.

You can also use rechargeable AA alkaline batteries, such as those made by RAYOVAC[®], or rechargeable AA nickel metal hydride (NiMH) batteries. We do not recommend nickel cadmium (NiCd) rechargeable batteries because we tend to get poor battery life from them.

Rechargeable alkaline batteries will not last as long as standard alkaline batteries. However, rechargeable NiMH batteries should give you suitable battery life.

NOTE:

The battery gauge on the Satellites screen may not read accurately with some battery brands because discharge rates can vary significantly. This is especially true for rechargeables. This battery gauge was calibrated for alkaline batteries.

Do not mix different battery types. Mixing battery types may cause leakage. (For example, don't use both alkaline and NiMH batteries at the same time, and don't use standard alkalines with rechargeable alkalines.)

Battery Installation

Turn the unit over so that the back is facing you. With your thumb or nail, pull back on the small clip to release the battery cover latch as shown in the following images. Once the latch is released, pull the battery cover up out of the grooves in the bottom of the case.



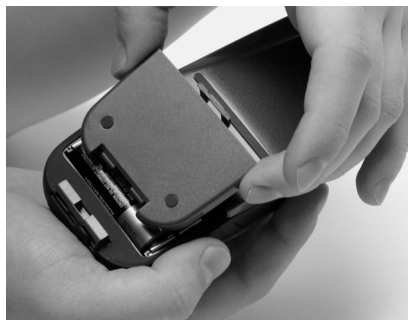
Remove iWAY battery cover.

Install the batteries according to the embossed signs in the battery compartment, which shows the correct polarity. Point the positive pole of the upper battery to the left; point the positive pole of the bottom battery to the right.

NOTE:

Inside the battery compartment is a rotating MMC card lock. The grip on this lock must be turned parallel with the direction of the batteries for them to fit properly.

Replace the battery compartment cover. First align the latch tabs at the bottom of the cover with the slots at the case's base. Press the cover into place, and then firmly push up on the clip at the top of the cover until it latches in place. There is usually an audible click when the latch engages.



Replace battery compartment cover. Align tabs with slots in the base, left. Press latch firmly until it clicks, as shown right

Cigarette Lighter Power Adapter with Speaker

To use external DC power: Plug the power cable's cigarette lighter speaker adapter into a cigarette lighter receptacle. Next, pull aside the rubber cover on the bottom of the unit and insert the other connector as shown in the following image. A small clip on the connector should hold the connector in place.



Attach external power cable to iWAY.

WARNING:

Do not remove the cigarette lighter speaker adapter and splice the exposed wires directly to a 12-volt power system. The cigarette lighter speaker adapter contains *in the plug* a protective fuse and a voltage regulator to convert 12 volts down to about 3 volts. Without this regulator, connecting your unit to a 12-volt power source will destroy the unit. This damage will not be covered by your warranty.

The power cable has a built-in speaker that allows you to hear verbal turn-by-turn driving directions. It has a headphone socket, volume control and a power indicator light. You can control the speaker's volume either by adjusting the level on the control on the side of the speaker, or by adjusting the iWAY's volume in the Main Menu. We'll explain how to do that later in this manual.

MMC or SD Memory Card Installation

Your iWAY uses a MultiMedia Card to store information, such as custom maps, waypoints and other GPS data. The unit can also use Secure Digital Cards (SD cards) to store information.

NOTE:

Throughout this manual, we will use the term MMC, but just remember that your unit can use an MMC *or* SD card to store data.

Both of these solid-state flash memory devices are about the size of a postage stamp, and range in storage capacities from 8 MB to more than a gigabyte of storage. We have successfully tested SD cards up to 512 MB.

Additional MMC cards are available from LEI Extras; see ordering information inside the back cover of this manual. MMCs and SD cards are also available at many consumer electronics stores.

The MMC slot is located in the battery compartment, beneath the batteries on the right side of the unit. The contact pins are springy, to make it easier to insert and remove the MMC card.

To remove an MMC

1. Remove battery compartment cover.
2. Remove batteries, if present.
3. Hold unit facedown in right hand. Use your thumb or index finger and press down on the center of the MMC label.



Remove an MMC Card.

4. Drag the MMC from the slot into the battery compartment.
5. Turn the iWAY face up and give it a shake to dump the MMC into your hand or onto a work surface.

To add an MMC or SD Card

1. Remove battery compartment cover.
2. Remove batteries, if present.
3. Hold unit facedown in right hand. Drop the MMC card into the slot, label-up, with the notched edge toward the right.
4. Press down on the center of the label and slide the card to the right.



Add an MMC Card.

5. Turn the plastic rotating card lock until it holds the card firmly in place, with the grip parallel to the direction of the batteries.
6. Replace the batteries and battery cover.

R-A-M[®] Bracket Mounting Systems

Several R-A-M[®] mounting brackets are available for your iWAY.

WARNING!

When a GPS receiver is used in an automobile, the driver is solely responsible for operating the vehicle in a safe manner. Drivers must maintain full surveillance of all pertinent driving conditions at all times.

An accident or collision resulting in damage to property, personal injury or death could occur if the operator of a GPS-equipped vehicle fails to pay full attention to travel conditions and vehicle operation while the vehicle is in motion.

Do not attempt to configure, adjust or enter information into your GPS unit while driving.

When mounting a GPS unit in an automobile, you must avoid any installation that obscures important instruments and controls or restricts the driver's view through the vehicle's windows. Avoid placing the GPS where it could be propelled by an activated airbag. Some states restrict mounting any electronic device in any location on an automobile dash. Be sure to check your local laws before using these mounts.

Be sure to check the suction mount for adequate adhesion each time you use the unit, and reinstall it if necessary. This is a portable mounting device, and the normal heating and cooling cycle of a car's interior will eventually loosen the seal. A loose suction cup could allow the unit to fall or come loose during a turn.

Assembly

Use a Phillips screwdriver to assemble the mount components provided with your unit. A plastic cradle, movable arm and plastic ball base connect to a suction cup to attach the unit to your vehicle's windshield.

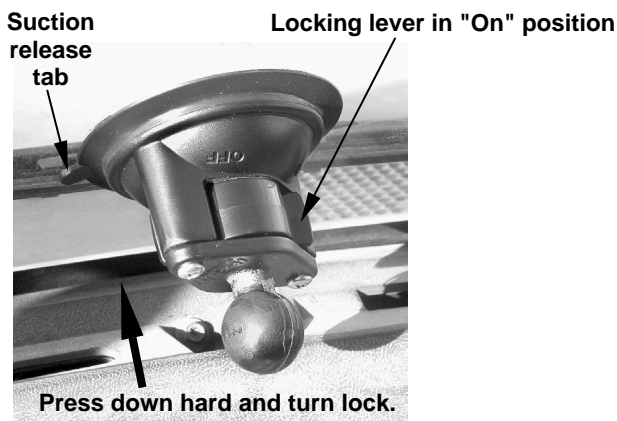


Assembled suction cup mount for the iWAY 100m.

Installing the RAM Suction Mount

The suction cup mount is designed to secure the GPS to a windshield or other smooth surface. The mounting surface should be free of dirt and oil. Remove the socket arm from the base and make sure the base locking lever is in the off position. (See the following figure.) Use both hands and press down hard on the mounting surface. While maintaining pressure, turn the lock lever to "on" (this will require some force). Attach the plastic cradle to the socket arm, then attach the arm (with cradle) to the base.

After assembling the mount as described, slide the iWAY into the cradle and connect the power cable. You can loosen the socket arm nut to position the unit for optimum viewing, then tighten it snugly. To remove the bracket, pull on the suction release tab to break the vacuum seal.



RAM suction cup base on windshield.

If the suction cup mount has problems staying on, clean the mounting surface and the suction cup with alcohol, then reinstall. Moistening the suction cup may help adhesion in some cases.

Hundreds of other RAM mounting systems are available for your unit. There are permanent mounts and temporary mounts suitable for virtually any vehicle, even motorcycle handlebars.

See your Lowrance dealer or visit the LEI web site, which can be found at **www.lei-extras.com**, for the latest options stocked by LEI, the accessory source for Lowrance and Lowrance Automotive. For a complete look at the many mounting options, visit the RAM web site at **www.ram-mount.com**, or call their purchasing support department at 206-763-8361. Or write to RAM: National Products Inc., 1017 S Elmgrove St, Seattle, WA 98108, USA.

If you have questions, contact us at the following phone numbers: In the U.S., call LEI Extras toll-free at 800-324-0045, 8 a.m. to 4 p.m. Central Standard Time, M-F. In Canada, call toll-free 800-661-3983, 8 a.m. to 5 p.m. Eastern Standard Time, M-F. If you live outside the U.S. and Canada, you should contact the dealer in the country where you purchased your unit. To locate a dealer near you, visit the Lowrance web site, **www.lowrance.com**, and look for the Dealer Locator.

Moving on: iWAY Operation

Now that you've got the iWAY installed and working, it's time to find out how it works. The following section jumps right into a description of the Map Display, which will tell you everything you need to know about the iWAY's moving map and the various settings in the map menu. If you feel comfortable using the Map Display, you can also skip to the advanced setup instructions in Sec. 3 on page 31 to start learning about iWAY's Main Menu.

Section 2:

The Map Display and Map Menu Options

This section addresses the unit's *Map Display* operation. You can use the Map Display to access all of the iWAY's navigation features, from finding the nearest restaurant to plotting a road trip across the country. If you're already comfortable with the basic Map Display and want to learn about more advanced setup, skip ahead to Sec. 3, *Main Menu Options*.

Before you turn on the unit and find where you are, it's a good idea to learn about the different keys, the Map Menu, and how they work together. BUT, if you just can't wait to get navigating, turn to the one-page ***GPS Practice Run*** on page 21.

Keyboard



iWAY 100m keypad.

1. **SPEAK** – Push this key any time Turn-by-Turn mode is active to make the iWAY repeat the current navigation instruction.
2. **MENU** – Press this key to show the menus, which allow you to select or adjust a feature from a list.
3. **PWR (Power)/LIGHT** – The PWR key turns the unit on and off and activates the backlight.
4. **ARROW KEYS** – These keys are used to navigate through the menus, make menu selections, move the map cursor and enter data.
5. **ZOUT (Zoom Out)** – This key lets you zoom the screen out to see a larger geographic area on the map. Less detail is seen as you zoom out.

6. **ZIN** (Zoom In) – This key lets you zoom the screen in to see greater detail in a smaller geographic area on the map.
7. **FIND** – The Find key launches the iWAY search menus.
8. **EXIT** – The Exit key lets you return to the previous screen, clear data or hide a menu.
9. **ENT** (Enter) – This key allows you to accept entered values or execute menu commands.

Power/Lights On and Off

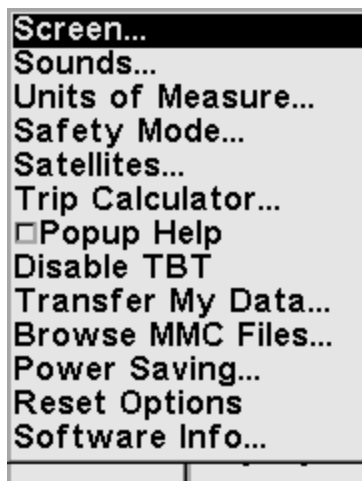
To turn on the unit, press **PWR**. To turn on the backlight, press **PWR** again. Pressing **PWR** once again will turn off the backlight. (Press **EXIT** to clear any message or alarm displays.)

Turn off the unit by pressing and holding the **PWR** key for 3 seconds.

Main Menu

The iWAY has a Main Menu that contains some function commands and some setup option commands. Access it by pressing **MENU|MENU**. The Map Display also has its own menu, which is accessed by pressing **MENU** one time. (All of these options come with default values so that you can use the iWAY right out of the box, but if you want to learn about the various options, see *Sec. 3, Main Menu Options*.)

To clear the menu screen and return to the page display, press **EXIT**.



The Main Menu.

The Main Menu commands and their functions are:

Screen command: changes the contrast or brightness of the display screen as well as the backlight delay.

Sounds command: enables or disables the sounds for key strokes, as well as controlling the type and frequency of voice navigation instructions.

Units of Measure command: changes the units of measure used in displaying distance, time and heading information.

Safety Mode command: turns on or off the Safety Mode, which prevents you from making changes to the iWAY while driving.

Satellites command: displays detailed information concerning the iWAY's current satellite lock.

Trip Calculator command: records and displays detailed information concerning the current trip, such as max. speed and total distance.

Popup Help command: turns on or off the tip boxes that appear when a menu item is highlighted.

Disable/Enable TBT command: toggles the unit between Turn-by-Turn (TBT) and Line of Sight navigation modes.

Transfer My Data command: allows you to copy waypoint and route information from the iWAY onto an MMC card, or from an MMC card onto the iWAY.

Browse MMC Files command: gives you information about the installed MMC card and the files it contains.

Power Saving command: lets you control the amount of battery power used for GPS accuracy, to extend battery life.

Reset Options command: resets all customizable settings to their factory defaults.

Software Info command: displays the current software version, useful when checking whether an update is available from our web site.

The Map Display

The map screens show your course and track from a “bird’s-eye” view. By default, this unit shows the map with north always at the top of the screen. (This can be changed. See the topic *Map Orientation* later in this section.) If you’re navigating to a waypoint, the map shows your starting location, present position, course line and destination. You don’t have to navigate to a waypoint, however, to use the map.

NOTE:

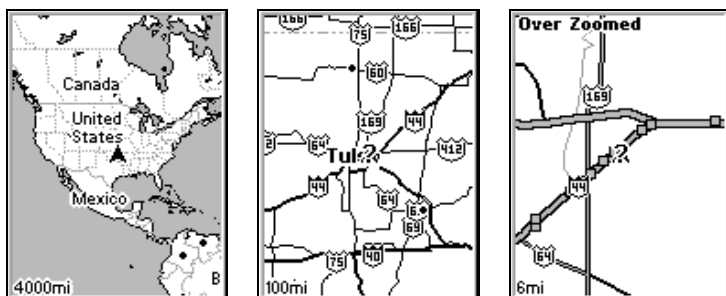
When our text says, “navigating to a waypoint,” we really mean navigation to *any* selected item, whether it is a waypoint you made, a map feature or an item (like a restaurant) from the POI database.

Using the map is as simple as turning on the iWAY. A screen similar to those in the following images appears. For illustrative purposes, we have removed the textual data boxes that usually appear at the bottom of the screen, allowing more of the map to show. You can add or remove data boxes using the Customize command on the Map Menu, described later in this section.

The arrow flashing in the center of the screen is your present position. It points in the direction you're traveling. (Remember, a flashing question mark on the arrow symbol or flashing text displays means the iWAY has not yet calculated a position.)

The map zoom range is the distance across the screen. This number shows in the lower left corner of the screen. In the first example below left, the range is 4,000 miles from the left edge of the map to the right edge of the map.

When you're not using the Auto Zoom feature, the Zoom In and Zoom Out keys zoom the map to enlarge or reduce its coverage area and the amount of mapping detail shown. There are several available map zoom ranges, from 0.02 miles (35.2 yards) to 4,000 miles.



Far left, Map Page opening screen. Center, zoomed to 100 miles and right, zoomed to 6 miles. Over Zoomed means you have reached the detail limits in an area covered only by the basic background map. Zooming in any closer will reveal no more map details because a high-detail custom map has not been loaded on the MMC for this area.

Note that you can use the iWAY to roughly locate your position using only the factory-loaded background map. However, in order to access the wealth of information available to the unit, including Points of Interest and Turn-by-Turn route generation, you *must* use a custom map generated in MapCreate, as described earlier in this manual.



Map display, left, and Map Menu, right.

The Map Display has its own menu, which is used to find distances, change the orientation of your map, view map data, and perform other helpful map functions. To access the Map Menu, press the **MENU** key. We'll describe the various options in the Map Menu in detail later in this section.

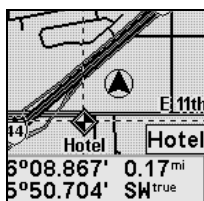
Waypoints

One of the most powerful tools in using the map display is the creation of waypoints. Waypoints are user-created graphical icons representing map locations. You can create a waypoint at your current position, or anywhere else on the map simply by scrolling the cursor to the desired location.

To create a waypoint, press and hold **ENT** until you see the words "Save Waypoint." Release **ENT**, and the Create Waypoint menu appears. We'll describe waypoint creation in detail later in this section. For now, we'll explain how to use an existing waypoint on the map.

Selecting a Saved Waypoint

You can select any waypoint by moving the cursor over its symbol on the map display. When you do, the symbol will be outlined with a black halo. The waypoint's name will also appear in a pop-up box.



A halo indicates a selected waypoint on the map display

Whenever you have a waypoint selected, you can press the **FIND** key and choose **SELECTED ITEM** to access more information about it. A Waypoint Information Screen will appear, which includes detailed information about the waypoint as well as options to begin navigating to the waypoint (**Go To**), to show it on the map, to edit its name and symbol, or to delete it from memory. Use ← or → to cycle among the available options.

Editing a Saved Waypoint

You can edit a waypoint's name or symbol by selecting it on the map and accessing the Waypoint Information Screen as described earlier. Use the arrow keys to choose which aspect of the waypoint you want to edit, and press **ENT**.

Deleting a Saved Waypoint

You can remove a waypoint from the iWAY by selecting it on the map and accessing the Waypoint Information Screen as described earlier. Use the arrow keys to choose **DELETE**, and press **ENT**. Confirm that you wish to delete the selected waypoint, and it will disappear.

Navigating to a Saved Waypoint

The easiest way to navigate to a saved waypoint is to treat it like any other cursor position on the map. Use the zoom and arrow keys to select the waypoint with your cursor. Then simply press **ENT** to auto-route to the selected location.

If you have several waypoints stored on your iWAY, or don't want to take the time to pan over to one, you can also use the Find Waypoint command from the Find Menu. This method allows you to sort through all of the waypoints on the unit either by name or by nearest to your current location. For more details on using the Find Menu, see Sec. 4 beginning on page 45.

The following page contains a 9-step "Practice Run" that will walk you through the most basic iWAY operations. Using just the steps outlined here, you can operate your iWAY well enough to find your current location and find your way to a destination.

If you don't want to carry the manual with you as you practice with the iWAY, you might consider photocopying this practice run page and tucking it into your pocket.

GPS Practice Run

Start with the iWAY installed in your car. As you practice, try navigating to a location at least a few blocks away. You should start out navigating to a destination you're already familiar with. Don't be too surprised if iWAY suggests a different route than you would take. Try the iWAY's route. Then see the heading "Knowing the Area" in Sec. 4.

1. With an MMC containing map details for your area in the unit, connect it to your car's power. (See complete installation details beginning on page 7.)
2. To turn on the unit, press and release the **POWER** key. Read the warnings that appear, then press **EXIT** to clear them and view the Map Display.
3. With your position acquired, press one of the arrow keys to bring up the Map Cursor. Now you can:

Zoom in closer to see greater detail: press **ZIN** (zoom in key.)

Zoom out to see more area, less detail: press **ZOUT** (zoom out key.)

Scroll map north, south, east or west using arrow keys **↑ ↓ → ←**.

To stop scrolling and return to current position on map, press **EXIT** key.

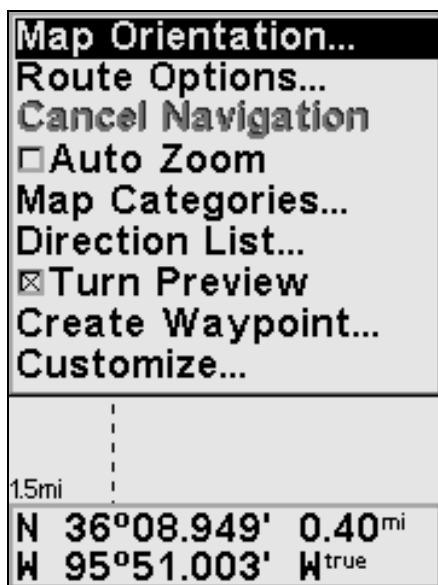
4. Choose your destination. Find an interesting location within a short driving distance from your house, and move the cursor to point at that location. Zoom in or out as necessary to precisely select your destination.
5. Press the **ENT** button once. The iWAY will immediately begin generating a route from your current position (or last known position, if you haven't yet acquired a satellite lock) to the cursor position on the map.

When the route is generated, a dark path line will appear on the map, and navigation instructions will begin to appear on your screen.

6. Press the **EXIT** button to clear the cursor, then press and hold **ENT** to open the Create Waypoint menu. Press **ENT** to create the waypoint at your current location.
7. Follow the iWAY's directions to the selected location. If you're comfortable finding your way in the area, try departing from the route the iWAY provides to see how it recalculates to correct for wrong or missed turns.
8. To navigate back home, follow steps 5-9, using the waypoint that you created in step 8 as your destination in step 5.
9. To turn off the unit, press and hold **POWER** key for three seconds.

The Map Menu

When you're using the iWAY you can press **MENU** to open a Map Menu containing several settings and commands relating to its mapping operation. You can use these settings to change the information iWAY provides you, as well as the way it generates that information. The iWAY works great right out of the box, but as you become more familiar with the unit and what it can do, you'll eventually want to begin tweaking some of these settings.



The iWAY Map Menu.

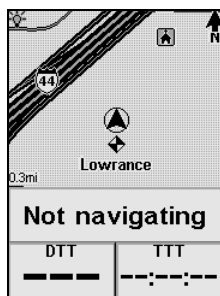
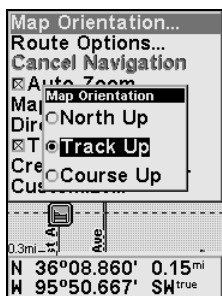
We'll spend the rest of this section introducing you to the options and settings available from the Map Menu.

Remember that you can always clear any menus and return to the Map Display by pressing **EXIT** repeatedly.

Map Orientation

By default, this receiver shows the map with your direction of travel always at the top of the screen (Track Up). Track Up mode rotates the map as you turn, so that what you see on the left side of the screen should always be to your left, and so on.

In Track Up mode, map shows "N" and arrow to indicate north.



Map Orientation command is shown left, and the Track Up mode at right.

Track Up mode is ideal for driving directions, where "turn left" and "turn right" can more closely resemble the information presented on the screen. However, you can change the map orientation to North Up or Course Up if desired.

The North Up setting constantly draws the map with north at the top of the screen, so that your cursor rotates to match your direction as you travel. This is the way most maps and charts are printed on paper.

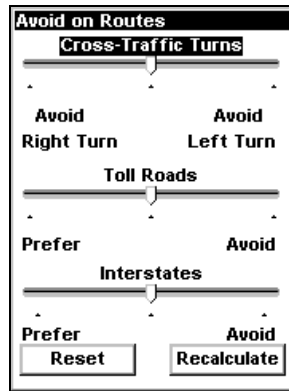
Another option is course-up mode, which keeps the map at the same orientation as the initial bearing to the waypoint. When either the track-up or course-up mode is on, an "N" shows on the map screen to help you see which direction is north.

Which option you use is a matter of personal taste; we sometimes switch back and forth depending on the circumstances. For example, when we are in an area we know fairly well, we usually run the unit in default North Up. But, we'll sometimes switch to Track Up when we're in an unfamiliar area and want to instantly coordinate what we see out the window with what we see on the screen. Try all three modes to find what works best for you.

To change map orientation: from the Map Menu, choose **MAP ORIENTATION** and press **ENT**. Press **↑** or **↓** to select an orientation option, then press **ENT**. Press **EXIT** repeatedly to return to the page display.

Route Options

Route Options are used to control exactly how the iWAY generates a route from your current position to a selected destination. To access these options, from the Map Menu choose **ROUTE OPTIONS**. A screen like the one in the following image will appear.



Use the Route Options menu to control how iWAY generates routes.

When generating a route, the iWAY is able to analyze certain types of roads or turns and adjust their values to either prefer or avoid them. Preferred road types will occur more often in your routes – the iWAY will deliberately try to take those types of roads. Road or turn types that you Avoid will show up less, although the iWAY may have to generate a longer route to avoid them.

The three slider controls on this page let you control how *much* you want to avoid or prefer the associated options when generating a route. The farther you move the slider to the left or right, the more it will affect the routes generated by iWAY. If you change these values significantly and notice that your iWAY has begun generating poor routes, try using the **RESET** button to restore factory defaults and see if that fixes the problem.

You can use the **RECALCULATE** button to automatically generate a new route to the same destination using the new preferences. Take advantage of this option when you're trying to learn the right *amount* of avoidance, to make sure the iWAY gives you just what you want.

Avoid Cross-Traffic Turns

Use this option to avoid turns across busy lanes of traffic. The iWAY will *not* avoid cross-traffic turns at major intersections, where you will likely have a protected turn at a traffic light. As with all of these settings, try changing it a little at a time. Sometimes you'd have to drive *miles* out of your way to avoid taking a cross-traffic turn somewhere in your route. Then again, sometimes it's worth it. Practice with this setting to find the value that's right for your driving experience.

Prefer/Avoid Toll Roads

By default, toll roads have a fairly high value in iWAY's route generation, because they are generally high quality roads with high speed limits, allowing you to get where you're going faster.

Of course, the convenience of toll roads comes at a price. If you'd rather save some of the cost of travelling toll roads, consider setting the iWAY to generally Avoid toll roads (use ↑ or ↓ select the label **TOLL ROADS** and press → to move the slider to the right). If you want to drive free, move the slider all the way to the right, and the iWAY will only use toll roads if there is *no* other route to your destination.

Of course, if you prefer the convenience of toll roads (and don't mind the cost), you can give them an even greater value by selecting the label and moving the slider to the left.

Prefer/Avoid Interstates

Of course, Interstate Highways aren't as expensive to travel as toll roads, but sometimes the stress of merging and exiting combined with the high speed make interstates less attractive – especially for short trips across town.

The default is already designed to avoid Interstates for very short trips, but if you feel like it's sending you to the highway too often, try telling the iWAY to Avoid Interstates (select the **INTERSTATES** label and move the slider to the right).

Like toll roads, you might prefer the speed of Interstate travel. You can tell iWAY to prefer Interstates by moving the slider to the left.

Cancel Navigation

When the iWAY notices that you've reached your destination, it will display a pop-up window asking if you want to cancel navigation to your destination. Choose **YES** to stop receiving navigation instructions to that location.

You can also cancel navigation to a destination at any time using the Cancel Navigation command. From the Map Menu, choose **CANCEL NAVIGATION**. Again the iWAY will display a pop-up window to confirm your choice. Choose **YES** and the iWAY will erase any navigation instructions and stop generating routes until you select a new destination.

Auto Zoom (On/Off)

The iWAY has an Auto Zoom feature which attempts to show you the most map detail possible as you navigate along a route. While the moving map shifts to track your current position, the Auto Zoom will zoom the map in and out based on your speed and the distance to your next turn.

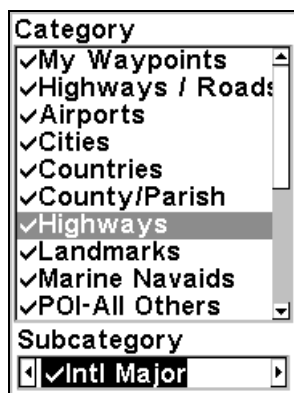
If you would prefer to manually control the zoom level of your map display, you can toggle the Auto Zoom feature off by choosing **AUTO ZOOM** from the Map Menu. Select the command and press **ENT** to check it (turn it on) and uncheck it (turn it off). Of course, you can also turn off Auto Zoom simply by pressing **ZIN** or **ZOUT** and choosing Yes from the confirmation dialog that appears.

Map Categories

The Map Categories command lets you choose how much of the mapping detail available in our database you want shown on the screen. This information includes waypoints, Points of Interest, cities, highways, etc.

If you draw too much detail, your screen can seem cluttered. If you don't draw enough, you're not getting the most value out of your mapping GPS. You can use the Map Categories command to selectively turn on or off any of these items, customizing the map to your needs.

From the Map Menu, choose **MAP CATEGORIES** and a screen like the one in the following image will appear.



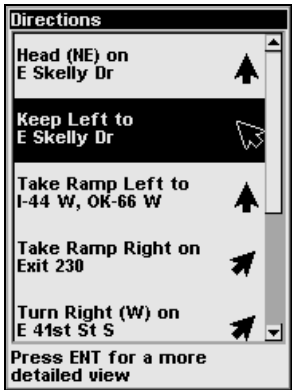
Use the Map Categories command to customize your map detail.

The Map Categories Drawn Menu is divided into two sets, "Category" and "Subcategory." You can turn any Category or Subcategory on or off. If you turn off a Category, none of its Subcategories will appear.

To turn an item on or off, select its entry in the list using ↑ or ↓ (use ← or → to select a Subcategory). When you've selected the category you wish to change, press **ENT** to check it (turn it on) or uncheck it (turn it off). The Category list is longer than will fit on one page, so a scrollbar appears to the right of it. Press ↑ or ↓ from the first or last item in the list will scroll it.

Directions List

The Directions List is generated whenever iWAY begins navigating to a destination. It contains a list of all the turns from the start of your route to the end, including an arrowhead icon indicating the direction of each turn. It looks something like the screen in the following image.

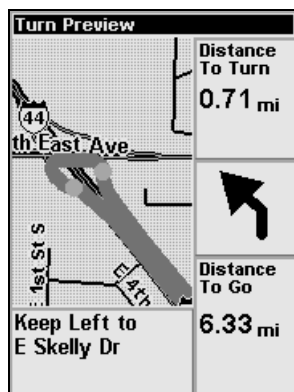


The Directions List for a generated route.

You can scroll up and down the list using ↑ or ↓. To get more detailed information, you can select any individual instruction by highlighting it and pressing **ENT**. The information screen that appears is called a Turn Preview.

Turn Preview (On/Off)

A Turn Preview is a screen designed to prepare you for upcoming turns. You can access the Turn Preview for any turn in your route by visiting the Directions List as described earlier. There is also an optional setting that allows the iWAY to automatically display the Turn Preview screen whenever you are approaching a turn in your route (it's on by default).



A sample Turn Preview screen.

As you can see in the previous image, the Turn Preview screen includes a close-up map of the turn itself, and you can see the gray route line indicating your path. Additional data boxes show the text instruction, the distance from your current location to the selected turn, the direction of the turn (in this case, a shallow left turn), and the total distance from the turn to the end of the route.

If you want the iWAY to automatically show you Turn Previews whenever you're navigating, you can toggle the Turn Preview feature off by choosing **TURN PREVIEW** from the Map Menu. Select the command and press **ENT** to check it (turn it on) and uncheck it (turn it off).

Create Waypoint

You can create a waypoint at any time using the Map Menu option (by choosing **CREATE WAYPOINT** from the Map Menu and pressing **ENT**), or by pressing and holding **ENT** until the Create Waypoint menu appears.

From the Create Waypoint menu, you must choose *where* you wish to create a waypoint. Simply pressing **ENT** a second time will activate the Quick Save option, which creates a waypoint at the cursor position if the Map Cursor is active, or at your current position if the cursor isn't up. Quick Save is the most common method of creating a waypoint.

You can further control how and where the waypoint is created. If you don't want to use Quick Save, use the arrow keys to select the waypoint creation method you prefer, then press **ENT** twice to create the waypoint.

Current Position creates a waypoint at your current location, regardless of the location of the Map Cursor.

Cursor Position forces the iWAY to create a waypoint at the cursor position (it is generally simpler to just use Quick Save).

Entered Position allows you to enter the exact latitude and longitude of a location, and the iWAY will then create a waypoint at that location.

Average Position causes the iWAY to record multiple location samples (until you end sampling) and create a single waypoint at the average of the various locations.

Projected Position allows you to enter information to generate a waypoint a set distance and direction from a known map location.

Customize Display

The map display provides customizable data options. These options control what information is displayed in addition to the map. Any information added to a customized display will appear in data boxes at the bottom of the screen.

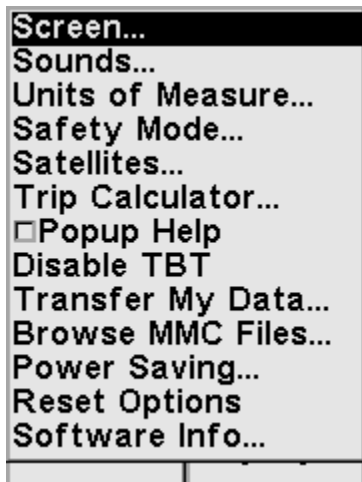
To add new data to a page display, from the Map Menu choose **CUSTOMIZE** and press **ENT**. A list of all of the available information will appear. Press **↓** or **↑** to select a display option. With the option highlighted, press **ENT** to check it (turn it on) and uncheck it (turn it off).

Notes

Section 3:

Main Menu Options

The iWAY has a Main Menu containing a handful of options and menus designed to let you customize the operation of your iWAY. To access the Main Menu, press **MENU** twice (**MENU** | **MENU**). The Main Menu will appear, as shown in the following image.



The iWAY Main Menu.

In the following pages, we'll describe each of the Main Menu options and commands shown here. All of these options come with default values so that you can use the iWAY right out of the box, so you may never need to make changes. You may wish to skip on to Sec. 4, beginning on page 45, to learn more about searching for destinations and generating routes.

Remember as you read through this section that all menus and dialogs can be closed by pressing **EXIT** until you return to the map display..

Screen Setup

The Screen Setup Menu allows you to control the visual display of your iWAY, such as its brightness and contrast and the backlight delay.

To access the Screen Setup Menu, from the Main Menu choose **SCREEN**. The menu will appear, as shown in the following image.

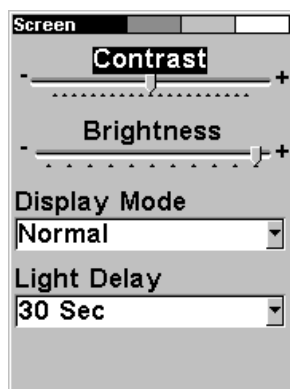
To adjust the display's brightness or contrast:

The Brightness Slider controls the graphical brightness of the screen. High levels of brightness could make the iWAY difficult to read, espe-

cially during night use; low levels may make the screen seem too dark for easy viewing. Use the slider bar to adjust your screen's brightness to your preference.

The Contrast Slider controls the graphical contrast between screen colors. Like brightness, contrast must be balanced to individual tastes and lighting conditions. Use the slider bar to adjust it to your preference.

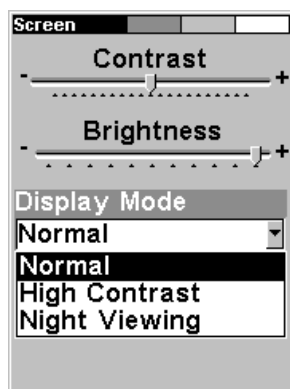
Select the appropriate slider bar and press → or ← to move the bar. The left end of the scale is minimum contrast or brightness; the right end is maximum.



Screen Menu, with Contrast bar selected.

To adjust the screen's display mode:

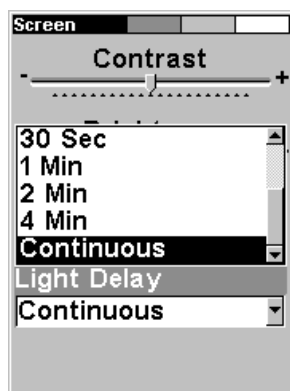
Press ↓ to **DISPLAY MODE** | **ENT** then press ↑ or ↓ to select *mode* | **EXIT**.



Display Mode menu.

To adjust the display's back light delay options:

1. Press ↓ to **LIGHT DELAY** | **ENT** | press ↑ or ↓ to select *mode* | **EXIT**.

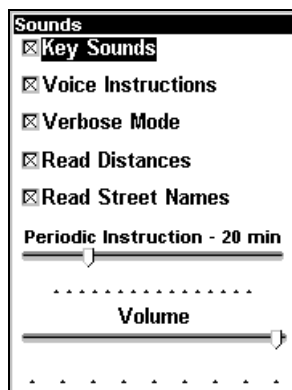


Light Delay menu. Setting shown is "continuous," which is ideal for night travel in a vehicle on external power.

Sounds and Voice Setup

Much of the information you'll receive from the iWAY will come in the form of sounds. Use the Sound command to adjust the type and frequency of audio output iWAY provides.

From the Main Menu, choose **SOUNDS**. The Sounds Menu appears, as shown in the following image.



The iWAY Sounds Menu, used to adjust iWAY's audio output.

To turn Key Press Sounds on and off: Select the checkbox to the left of the label **KEY SOUNDS** and press **ENT** to check it (turn it on) and uncheck it (turn it off).

To turn other routing instructions on and off: In addition to audible beeps whenever you press keys, the iWAY 100m is able to speak instructions guiding you through your routes. The Sounds Menu provides four checkboxes to let you control how much time the iWAY spends talking to you.

The Voice Instructions command controls all spoken instructions throughout your route. If you turn off Voice Instructions, the iWAY will not play any turn instructions as you drive.

The Verbose Mode option controls how many of the navigation instructions the iWAY should tell you. When Verbose Mode is turned on, the iWAY will instruct you at every turn. When it's turned off, the iWAY will only speak up at the most important turns.

The Read Distances and Read Street Names options control whether or not the iWAY speaks those *portions* of the turn instructions.

To turn any of these options on or off, select its label using ↑ or ↓ and press **ENT** to check it (turn it on) and uncheck it (turn it off). If you turn off Voice Instructions, they can still be accessed by pressing **SPEAK**, which will make iWAY state the current instruction.

To adjust Periodic Instruction frequency: Select the label for the **PERIODIC INSTRUCTION** slider and use → or ← to adjust it. Move the slider to the right to increase the frequency of spoken instructions, or to the left to decrease it.

Periodic Instructions are repeated at set intervals and are intended as reminders. Use this slider to adjust the frequency of Period Instructions until your iWAY is giving you exactly as much information as you need.

To set Volume: Select the label for the **VOICE VOLUME** slider and use → or ← to adjust it. Move the slider to the right to increase the output volume, or to the left to decrease it.

Units of Measure

This menu adjusts the units of measure iWAY uses to display speed and distance (statute miles or meters), your heading (true or magnetic), the current time (12 hour or 24 hour format), and the date (Month/Day/Year, Day/Month/Year or Year/Month/Day).

To change any of these, from the Main Menu choose **UNITS OF MEASURE** and the menu shown in the following image will appear.

Units of Measure	
Speed/Distance	
Statute	
Time	Date
12 hour	MM/DD/Y
Heading	Altitude
True	Feet

The iWAY Units of Measure Menu.

To change any setting: select the label of the measure you wish to change and press **ENT**. A drop-down list appears, showing the available options. Choose the units you prefer, and press **ENT**.

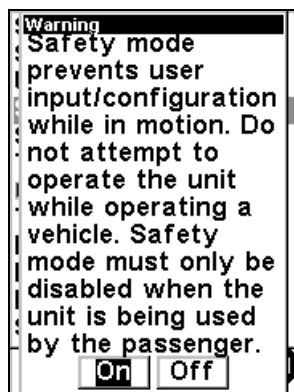
Safety Mode

The iWAY has a Safety Mode to prevent vehicle drivers from operating the GPS while the vehicle is in motion. The unit will navigate while moving, but the keyboard and on-screen menus are temporarily disabled. The keyboard and menus become responsive when the vehicle stops.

However, if a passenger is available to act as navigator, Safety Mode can be turned off. This switches the unit to Passenger Mode and allows the passenger to operate the unit while the vehicle is moving.

To disable Safety Mode and switch to Passenger Mode (or to turn Safety Mode back on, when a navigator is no longer available), from the Main Menu, choose **SAFETY MODE**.

A warning screen like the one in the following image will appear describing the purpose of Safety Mode and asking you whether you want to disable it (**OFF**) or leave it active and return to the previous screen (**ON**).



Safety Mode disable menu.

Choose whether you want Safety Mode on or off by selecting the appropriate label, and press **ENT**.

WARNING:

When a GPS unit is used in a vehicle, the vehicle operator is solely responsible for operating the vehicle in a safe manner. Vehicle operators must maintain full surveillance of all pertinent driving conditions at all times. An accident or collision resulting in damage to property, personal injury or death could occur if the operator of a GPS-equipped vehicle fails to pay full attention to travel conditions and vehicle operation while the vehicle is in motion.

Do not attempt to configure, adjust or enter information into your GPS unit while driving.

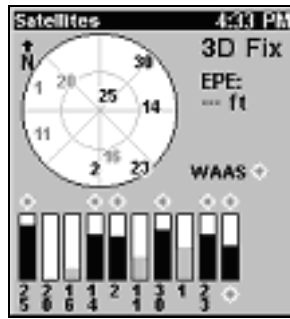
Satellites

This command provides detailed information on the status of the iWAY's satellite lock-on and position acquisition. On the map display a flashing current position indicator/question mark symbol and flashing GPS data displays indicate that satellite lock has been lost and there is no position confirmed. This command shows you the quality and accuracy of the current satellite lock-on and position calculation.

WARNING:

Do not begin navigating with this unit until the numbers have stopped flashing!

To get to the Satellite Status screen from the Main Menu, choose **SATELLITES**.



The Satellite Status screen.

The GPS Status Screen contains several graphical elements that represent a lot of information.

Current Position Lock

A set of three buttons along the left side of the screen indicates the quality of position lock your iWAY currently has. The button that's selected indicates your current position lock. If none of them is selected, your current position hasn't been established.

2D means the iWAY has achieved a lock on your current position on a map. A 2D lock does *not* include your altitude. The iWAY must receive reliable signals from 3 satellites to establish a 2D lock.

3D means the iWAY has achieved a more reliable lock, including not only your coordinate location but also your altitude (or elevation). The iWAY must receive reliable signals from 4 satellites to establish a 3D lock.

WAAS means your GPS is receiving reliable correction signals from the FAA's Wide Area Augmentation System. WAAS is designed for use in aircraft, but occasionally terrestrial vehicles can attain a WAAS lock. This is the most accurate position signal available in the iWAY.

EPE (Estimated Position Error)

The Estimated Position Error (abbreviated "EPE") is shown right next to the Current Position Lock buttons. This value represents the expected error from a benchmark location. In other words, if the EPE shows 50 feet, then the position shown by the unit is estimated to be within 50 feet of the actual location.

This also gives you an indicator of the fix quality the unit currently has. The smaller the position error number, the better (and more accurate) the fix is. If the position error flashes dashes, then the unit hasn't locked onto the satellites, and the number shown isn't valid.

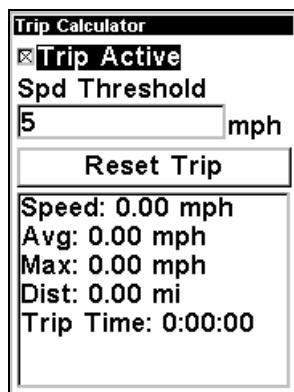
Satellite Display

A white circle that serves as a graphical view of the satellites overhead fills much of the right half of the screen. Each satellite is shown on the circular chart relative to your position. The GPS receiver is tracking satellites that are in black type. The receiver hasn't locked onto a satellite if the number is in gray, so it isn't being used to solve the position.

Trip Calculator

The Trip Calculator is a handy tool for keeping track of detailed information concerning your route. You can use it to find the distance of your daily commute, or to calculate your average speed on a cross-country road trip.

To access the Trip Calculator, from the Main Menu choose **TRIP CALCULATOR**. A screen like the one in the following image appears.



The iWAY Trip Calculator screen.

Trip Active

Use the Trip Active checkbox to turn on and off trip calculation. If you want to take a detour without recording that in your trip calculation, you can simply use the Trip Active command to temporarily disable calculation.

With the label **TRIP ACTIVE** selected, press **ENT** to check the checkbox (turn on) and uncheck it (turn off).

Threshold

You can use Threshold to make sure the information recorded by iWAY in the Trip Calculator only applies to your trip's route – not the lost time in snack stops along the way or the idle time spent in a traffic jam. If you're interested in complete details for *this* trip, set your threshold low (0 mph will monitor conditions all the time).

If you'd prefer a more accurate average measure, raise the Threshold above idle speed. The Trip Calculator will only track time spent and distance traveled while you're moving faster than the Threshold.

You can adjust this value by selecting the label **SPD THRESHOLD** and pressing **ENT**. Use the arrows keys to adjust the value in the box, then press **ENT** to accept the new value.

Reset Trip

The Reset Trip command is used to reset all of the calculated values to zero and begin recording new information.

Whenever you're starting a new trip, remember to open up the Trip Calculator Menu and choose **RESET TRIP**.

Calculated Data

The rest of the Trip Calculator screen shows you the calculated information for your current trip. These text boxes contain values that update in real time, while you watch, so you can see your exact speed or how far you've already gone.

Current Speed, Average Speed and Max Speed

Current Speed, Average Speed and Max Speed all track your ground speed as measured by changes in your GPS position.

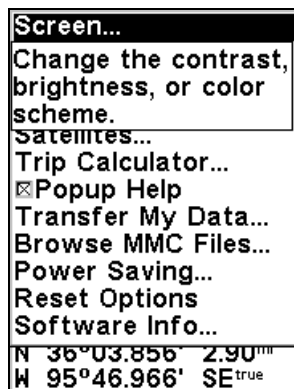
Distance and Trip Time

Trip Time tells you how long you've been on the road, and Distance tells you how long your trip has been so far. Remember that these values are only recorded while you're moving faster than the Threshold (as described earlier).

Pop-up Help

Help is available for virtually all of the menu labels on this unit. By highlighting a menu item and leaving it selected for a few seconds, a "pop-up" message appears that describes the function of the menu item. This feature is on by default.

To set up Popup Help from the Main Menu, choose **POPUP HELP**. With the option highlighted, press **ENT** to check it (turn on) and uncheck it (turn off).



This example shows the Pop-up Help message for the Screen command, located on the Main Menu.

Disable/Enable TBT (Turn-by-Turn)

Although the iWAY is designed to provide you with powerful turn-by-turn routes, sometimes you want navigation information directly to your destination, regardless of the roads between here and there. We refer to this as Line of Sight navigation.

Turn-by-Turn routing is only available in areas covered by a MapCreate custom map file. If you're navigating in an area outside of your custom map, or if you wish to disable Turn-by-Turn route generation for any other reasons, choose Disable TBT from the Main Menu and press ENT.

When Turn-by-Turn navigation is disabled, the iWAY will offer additional menu options and map display behavior that is unnecessary in Turn-by-Turn mode. These features are detailed fully in the iFINDER H2O manual available for free download from our website at the following address: <http://www.lowrance.com/Manuals/>

To return to Turn-by-Turn mode, simply press **MENU** twice to return to the Main Menu, then choose **ENABLE TBT** and press **ENT**.

Transfer My Data

Custom Maps:

Custom maps work only from the MMC card or SD card. When a card containing a Custom Map File is loaded into the unit, it automatically loads the map into memory when the unit is turned on.

Instructions for copying Custom Map Files to an MMC are contained in the instruction manual for your MMC card reader and MapCreate 6 software. For instructions on inserting an MMC into the iWAY, see *Sec. 1, Installation/Accessories*.

GPS Data files:

GPS Data Files contain waypoints, routes, trails and event marker icons. Instructions for copying GPS Data Files between your computer and an MMC are contained in the instruction manual for your MMC card reader and MapCreate 6 software.

GPS data automatically recorded in the unit's internal memory must be saved to the MMC (as a GPS Data File) in order to store it on your personal computer. GPS Data Files stored on an MMC must be copied from the card to the iWAY's internal memory before the unit can read them. Here's how:

1. Insert the MMC into your unit. From the Main Menu, choose **TRANSFER MY DATA**.

2. The Transfer My Data menu includes a message which tells you if an MMC is present or not. If no MMC is present, you must first insert a card into the iWAY in order to activate the Load or Save commands.

To transfer data *from the iWAY to the MMC*: press **ENT** (for **SAVE**.)

To transfer data *from the MMC to the iWAY*: press **→** to **LOAD** | **ENT**.

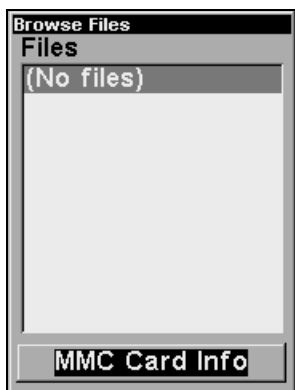
3. **Saving to MMC**: To accept the default name "Data" for the GPS Data File, press **↓** to **SAVE DATA** | **ENT**. If you wish to rename the file, press **ENT** to activate the selection box. Press **↑** or **↓** to change the first character, then press **→** to the next character and repeat until the name is correct. Then, press **ENT** | **↓** to **SAVE DATA** | **ENT**.

The unit will display first a progress then a completion message when the data transfer is finished. To return to the Page view, repeatedly press **EXIT**.

4. **Loading to unit memory**: There may be more than one GPS Data File (*.USR) on the card. To select a file, press **ENT** to activate the selection box, use **↓** or **↑** to highlight the file, then press **ENT** to accept the selection. Next, press **↓** to **LOAD** | **ENT**. The unit will display a completion message when the data transfer is finished.

Browse MMC Files (and Check Storage Space)

To check MMC Files from the Main Menu, choose **BROWSE MMC FILES**.



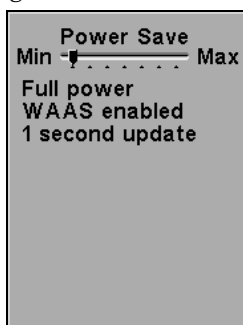
At left, the MMC File Browser, with Card Info screen shown at right.

Power Saving

The iWAY will flash low battery warning messages when battery power declines to a certain level. The power save feature conserves battery power by changing the position update rate. We recommend you test the power save feature in known surroundings and determine its capabilities before venturing into unknown territory. Experiment with modest settings, such as 1 second update (300 ms) or 1 second update (200 ms) and see if accuracy is adequate for you.

WARNING:

Full power settings will always give you the best, most accurate performance with the iWAY. Power save functions can extend battery life, but aggressive power saving settings can reduce GPS accuracy, particularly in demanding situations when signal availability is less than ideal. It is up to you to decide if position accuracy or battery consumption is the most important consideration for a particular navigation situation.



The Power Save menu at Min Power save (shown left center) and Max Power Save (shown right).

To access the Power Saving feature from the Main Menu, choose **POWER SAVING**. On the Power Saving display, press → or ← to move the slider bar. The left end of the scale is minimum power saving (full battery power); the right end of the scale is maximum power saving (minimum battery power.)

Reset Options

To reset all customizable settings to their factory defaults, from the Main Menu choose **RESET OPTIONS**. A dialog will pop up asking you if you're *sure*. Choose **YES** to proceed.

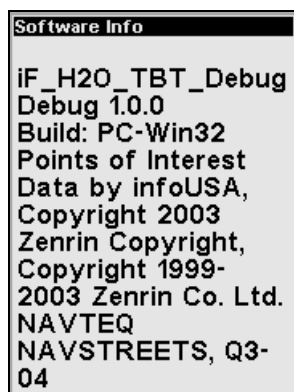
NOTE:

Reset Options does *not* erase any of your waypoints or Recent Finds.

Software Information

From time to time, Lowrance updates the operating system software in some of its products. These software upgrades are usually offered to customers as free downloads from our web site, www.lowrance.com. These upgrades make the unit perform better or introduce a new feature or function. You can find out what software version is running in your unit by using the Device Information command.

From the Main Menu, choose **SOFTWARE INFO**. A dialog like the one in the following image will pop up, showing you all the current information about your iWAY.



The Software Info screen.

Complete information and instructions for installing an update will be available on the update's page at the Lowrance web site.

Notes

Section 4:

Searching, Finding, and Navigating

One of the most important uses of the iWAY is generating routes to help you get from where you *are*, to where you want to be. In this section, we'll teach you how to make iWAY generate a route for you, as well as how to use the information iWAY provides.

With the exception of the one-touch **Go To CURSOR** command available at the press of **ENT**, the iWAY's search functions all begin with the **FIND** button. When you press this key, the Find menu appears, as shown in the following image.



The iWAY Find Menu.

NOTE:

You can search for items even before the unit has acquired a position. If you do a search before your position has been determined, iWAY will show you distance and bearing to the selected item from the unit's last known position (or the cursor, if the cursor is active).

The options available when you choose **MAP PLACES** all point to a database of POIs (Points of Interest) stored on your unit. We've divided Fuel, Lodging and Restaurants into their own categories to save you time on the most common searches. No matter which of these options you choose, you'll be able to either search for places nearest your current position, or to search for specific places by name.

NOTE:

Any time you perform a search while the map cursor is up, the distances listed for search results will be calculated from the cursor position, not your current position. That means you can scroll ahead to a destination a hundred miles away, and find the nearest hotel *there*, or you could clear the cursor and do a search for the hotel nearest your *current* location, then finish the trip tomorrow.

FIND ADDRESS lets you enter a street address and navigate directly to it. **WAYPOINTS** lets you search through a list of waypoints that you've created, and navigate back to them.

RECENT FINDS is a helpful function that keeps track of the most recent places you have navigated to, so you can go right back.

Finally, as we mentioned in Sec. 2, **SELECTED ITEM** opens the Waypoint Information screen for a waypoint or POI selected on the map. From the Waypoint Information Screen you can choose to Go To the selected location or display its map location.

We'll discuss all of these search options in the following pages, but first we need to describe one of the iWAY's basic tools, which will be used a lot in searching: the information entry system.

Entering Names and Numbers into the iWAY

Many of the search options available through the Find menu will require you to enter data such as store names or address numbers. To do this, you will use the right and left arrow keys to select a character position and the up and down arrow keys to change the selected character to the desired letter, number or symbol.

Whenever you need to enter textual information, you will see a white text box with a label such as Find By Name. Use the right and left arrows to select a character in the field, and the up and down arrows to change that character.

As you enter the beginning of a name, the iWAY will often suggest possible endings. The list below will also show names closely resembling the one that you are typing. When the desired name appears in the list below, press **ENT** to Find in List, and use the up and down arrows to select the desired entry. Press **ENT** again to accept that value.

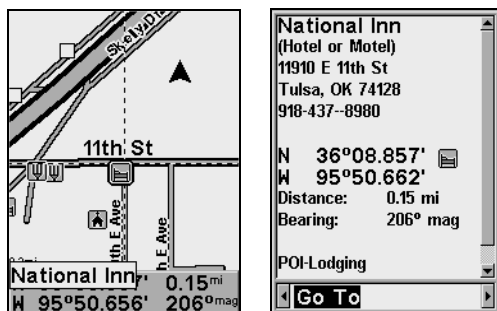


Use the arrow keys to enter names and numbers in iWAY text boxes.

Now that you know how to enter the information the iWAY will need, let's look at some of the ways you can *use* this information. We'll simply work our way down the Find Menu screen.

Find Any Item Selected by Map Cursor

With a POI or map feature selected by the cursor, from the Find Menu choose **SELECTED ITEM**. The Waypoint Information Screen for the selected item will appear.



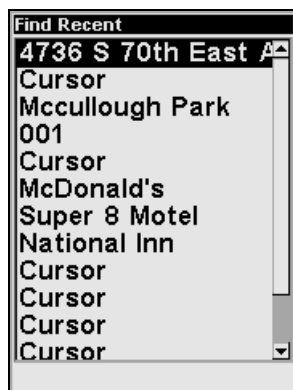
A POI selected by the cursor is shown left, with its POI information screen at right.

NOTE:

Since the Go To command is highlighted, you can navigate to the selected POI by pressing **ENT** while in the Waypoint Information Screen.

Recent Finds

This handy command provides you with a list of the twenty most recent destinations you searched for and navigated to.



The Recent Finds list.

You can use the Recent Finds command to quickly get back on your route if you diverted to a POI along the way, or to navigate back and forth between two locations on a common commute.

Find Waypoints

The My Waypoints command is used to search among waypoints that you have created on the iWAY. If you haven't created any waypoints, the iWAY will display a message indicating that no waypoints were found. For details on creating waypoints, see Sec. 2.

To find one of your waypoints from the Find Menu, choose **MY WAYPOINTS**. A pop-up window will ask you whether you want to search by Name or by Nearest. Choose the method that works best for your situation. If you choose Name, a text box will appear allowing you to enter the waypoint's name (or just enough of it to find it in your waypoints list). If you choose Nearest, the entire waypoints list will appear, with the nearest waypoint at the top.



You can Find Waypoint by Name (shown left) or by Nearest (shown right).

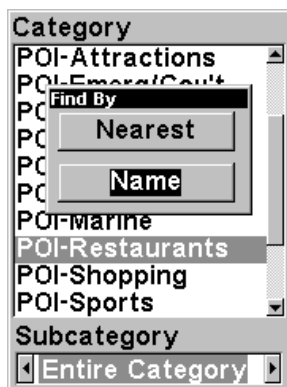
Choose the waypoint you're interested in by selecting it from the list and pressing **ENT**. The Waypoint Information Screen will appear, allowing you to **Go To** the waypoint, **FIND ON MAP**, **EDIT** its name and icon, or **DELETE** it. Use the left or right arrows to choose any of these options, and press **ENT** to continue.

Find Fuel, Lodging, Restaurants, and other POIs

All of the options available under Map Place work essentially the same. We'll use the **POI - FUEL** command as an example, but you can follow essentially the same steps to locate and plot a course to any Point of Interest stored in our database.

To find a nearby gas station:

1. Press Find to open the Find Menu.
2. Choose **POI - FUEL**. A pop-up window will ask you whether you want to search by Name or by Nearest.



Find POI command, the iWAY asks to find By Name or By Nearest.

3. Searching by Name allows you to find the closest Mobil, or the closest Texaco, if you have a preference. It's often used in Restaurant searching. For our example, though, we'll assume we're running low on gas and need the first gas station available. Choose **NEAREST** from the Find By menu to proceed.

4. A "Calculating" screen will appear briefly, and then the iWAY will show you a list of the nearest gas stations in its database. Wait a moment for it to finish filling up the list, and then you can choose the one you want.

Navigating to the Selected POI

Now that you have a list of nearest POIs, choose the one that suits you best, and press **ENT**. The iWAY will then show you a Waypoint Information Screen (as discussed in Sec. 2) with details about the POI you've chosen.

Since this is the result of a POI search, the Waypoint Information Screen will likely have the name of the POI, its street address, and probably even its phone number. That can be very helpful for calling ahead to get a table at a restaurant if you're out of town. It's not so important if you're just looking for a gas station, though. Much more important to you are the Go To and Find On Map commands. To cycle among the available options, use the left and right arrows.

You can choose Find On Map to make the iWAY close the Waypoint Information Screen and move the map so that it's centered on the selected POI. This can be helpful if you're trying to figure out where it is in relation to your own position, or to some other part of town.

Right now, we're just trying to get *to* the gas station, though, so choose **Go To**. The iWAY will generate a route from your current position (or last known position, if it doesn't have a satellite lock) to the selected destination.

NOTE:

There are several optional settings that control exactly *how* the iWAY generates its route. These options are discussed in detail in Sec. 3. See the heading "Route Options" there for more details.

As soon as the route is generated the iWAY will draw the course of your route on the map, and begin providing visual and spoken directions along the route. You can skip ahead to the heading "Following iWAY's Instructions" if you're interested in exactly how the iWAY directs you along your course, or you can keep reading to see the other sorts of searches available on the Find Menu.

Find Address

Find Address will let you navigate to nearly any address, using only the street number and the street name. Of course, this is a very handy feature when trying to visit a friend or some other residential destination. It can also be quite helpful when trying to get to a shop or business that's not included in our POI database! Just look it up in the phone book and enter its street address to navigate right to it.

1. Start by pressing **FIND** to open the Find Menu, then choose **ADDRESS**. The following image appears, with three fields. "Address" requires only the number, and "Street" requires only the street's name (not identifiers such as "Ave."). Select each of these fields in turn and press **ENT** to fill in the information.

2. **To enter an address number**, select the label **ADDRESS** and press **ENT** and the cursor will enter the text field as described earlier in this

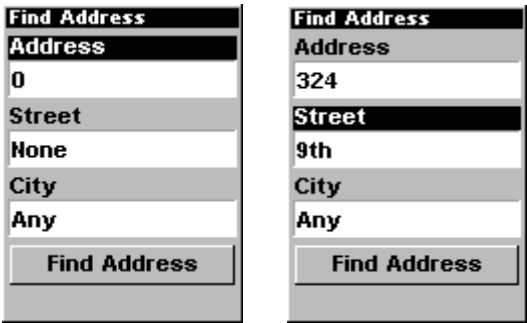
section. Enter the desired address number, and press **ENT**. The Find Address menu will appear again, with the information you entered in the Address field.

3. **To enter a street name**, select the label **STREET** and press **ENT** and the cursor will enter the text field. Enter the desired street name, and press **ENT**.

NOTE:

When you're entering a street name, leave off any additional identifiers such as "Dr." or "Ave." (for drive or avenue) as well as ordinals on numbered streets. In other words, for "3rd Ave." you would simply enter "3" and then press **ENT**.

A list of possible matches will appear. Use the arrow keys to select the right street name and press **ENT**. The Find Address menu will appear again, with the information you entered in the Street field.



Find Address menu, shown left with all fields empty, and shown right with Address and Street Name entry complete.

4. **To enter a city name**, select the label **City** and press **ENT**. You will be asked if you want to find addresses only within a particular city. This option is designed so you can limit an address search to a single city if necessary (see the note below). If you choose **YES**, the cursor will enter the text field as described earlier in this section. Enter the desired city name, and press **ENT**. The Find Address menu will appear again, with the information you entered in the City field.

NOTE:

We recommend that you do *not* enter a city name unless the list you are given is too large when you try searching without it. The iWAY can actually search quicker without a city and you save time by not entering a city name.

5. Choose **FIND ADDRESS**. A dialog will pop up letting you know it's working while the iWAY searches for the address, and then a list of possible

choices will appear. Use the arrow keys to select the line of the address you want, then press **ENT** to bring up its Waypoint Information Screen.

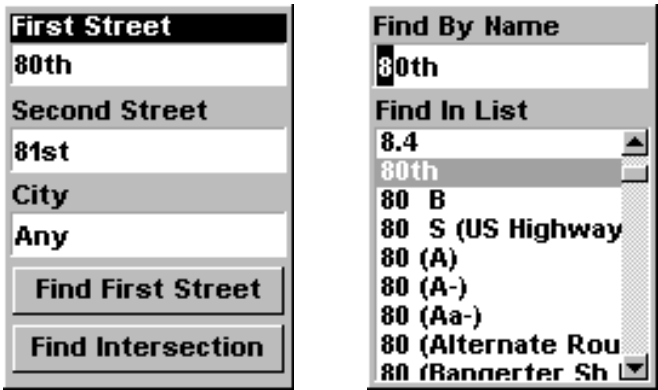
Of course, you already know how to use the Waypoint Information Screen. You can see how far away the address is, or choose Find On Map or Go To if you want to begin navigating to it.

Find Streets or Intersections

Find a Street

From the Find Menu, choose **STREETS** and press **ENT**. The Find Streets menu appears.

1. You must first fill in a street name in the First Street text box. Select it and press **ENT**, and the cursor will enter the text field as described earlier in this section. Enter the desired street name, and press **ENT**. The Find Streets menu will appear again, with the information you entered in the First Street field.



Find streets or intersections menu, left, Find street by name, right.

2. The Find Streets menu reappears with the street you're searching for in the First Street box. (In this example, it's 80th Street.) To search for that street, choose **FIND FIRST STREET** and press **ENT**. A message appears asking you to wait while the unit finds the street. When the Streets Found list appears, press **↑** or **↓** to the street you are searching for and press **ENT**.

First Street
80th
Second Street
81st
City
Any
Find First Street
Find Intersection

Streets Found
80th St, Monroe C
SW 80th Ct, Miam
SW 80th St, Miam
SW 80th Ave, Mial
SW 80th Pl, Miami
SW 80th Ave, Mial
SW 80th Pl, Miami
SW 80th Ave, Mial
SW 80th Ave, Mial
SW 80th Ave, Mial
SW 80th Rd, Pinet
SW 80th Ave. Pine

Find first street, left, Street found, right.

Find an Intersection

To find an intersection, repeat the instructions for finding a street, entering the name of a crossing street in the Second Street field. You could now also select a city, but your search will probably be faster if you leave those boxes blank. (You can specify a city later on to narrow the search, if the resulting list is too long.)

First Street
80th
Second Street
81st
City
Any
Find First Street
Find Intersection

First Street
80th
Second Street
81 Working...
City Finding street
Address intersection.
Address Please wait.
Find First Street
Find Intersection

Intersections
SW 80th Ct + SW
81st Dr
Miami-Dade
SW 80th Ave +
SW 81st Dr
Miami-Dade
SW 80th Rd +
SW 81st Rd
Pincrest, FL
SW 80th Ter +
SW 81st Ave
Miramar, FL

Find intersection, left, and "Working" menu, center, Intersection list, right.

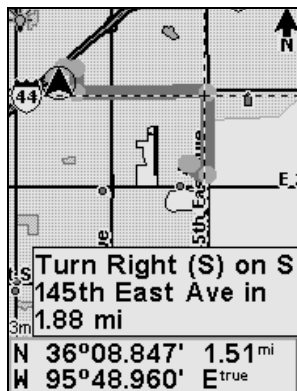
To search for the intersection of the two streets, choose **FIND INTERSECTION** and press **ENT**. A message appears asking you to wait while the unit finds the intersection. When the Intersections Found list appears, press **↑** or **↓** to select the intersection you are searching for and press **ENT**. (In the previous example, we selected the intersection of SW 80th Court and SW 81st Drive in Miami, Fla.)

Following a Generated Route

So far we've taught you all the ways to make iWAY generate a route for you. No matter which method you use, the iWAY responds in the same way. It begins examining the roads between your current position, and your selected destination.

By default, the iWAY tries to find you the fastest, shortest route to your destination. It will generate a list of instructions detailing the turns you need to make and the roads you need to follow along the way. It will also draw a gray line on the map display, showing the route you're supposed to take.

Every turn in your route – every instruction you'll receive – is shown on the map as a light dot on the gray route line. You can point the map cursor at any of these dots and a pop-up text box will show you the text instruction for that turn.



The iWAY clearly indicates every turn in a generated route.

It's easy to teach the steps to make the iWAY generate a route. It's a little harder to describe exactly how you should use that information. Following the routes generated by the iWAY will take some practice. You have to learn when it's perfect, and when it's just good. And, of course, you have to learn what exactly it *means* by some of the terms it uses. In the following pages, we'll try to give you some pointers to lead you in that direction.

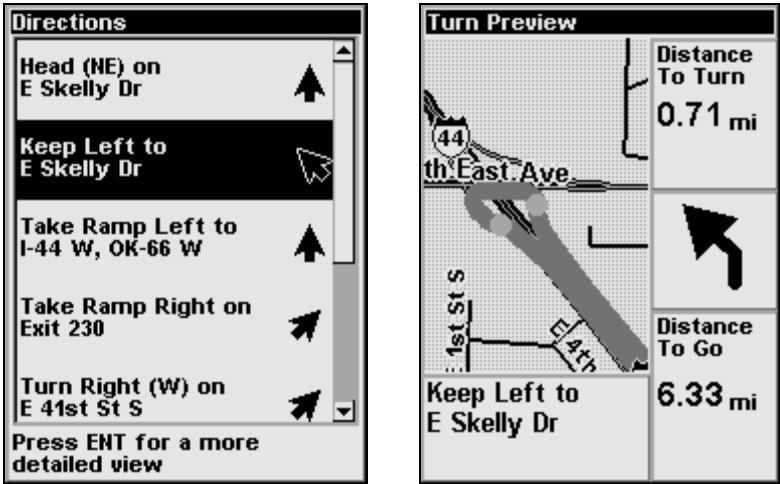
Knowing the Area

The iWAY is designed to help you find your way in unfamiliar streets. It *can* be extremely handy at home, too, but there is no substitute for local knowledge. If you use the iWAY in your own neighborhood, it may occasionally recommend a route that you know isn't the best option. Of course, we do our best to provide the optimum route in all situations, but if you know a better path than the one the iWAY provides, take it.

As soon as you leave the iWAY's recommended course, it will begin generating a new route based on your new position. This will likely match the path you planned to take.

Using Turn Preview and the Directions List

Turn Preview and the Directions List are both described in Sec. 2. The main navigation mode of the iWAY is the Map Display with its Overlay Data and voice instructions. The goal of the Map Display is to provide you a constant awareness of your current position on your route, and a general sense of the larger route. Turn Preview and the Directions List are designed to give you slightly different information from the basic Map Display navigation.



The Directions List is shown left; a Turn Preview is shown right.

Turn Preview allows you to leave your current position to focus minutely on a particular turn in the path ahead. A close zoom range and large-font data boxes combine to help you see exactly the road conditions up ahead.

The Directions List, on the other hand, gives you a detailed description of the entire route – more information than you can see in the basic Map Display. The Directions List tells you every step of the way, so you can get a very good idea what to expect further down the road.

The path described in the Directions List parallels the gray route line on your Map Display, and every entry in the list is shown on the map's route as a light dot, as we mentioned. You can select any turn in the Directions List to open a Turn Preview screen for that instruction.

These tools can be very useful when checking a route through a known area. After the iWAY generates a route, open the Directions List and read through the steps to see if it generally matches the path you would

take. If the route is over unknown ground, this can be a very useful way to prepare yourself for the path ahead.

Considering Temporary or Local Conditions

Of course, the iWAY cannot possibly be aware of all temporary or local conditions that could affect your course. Short-term construction, traffic jams, or local bans on U-turns could all impact the usefulness of an iWAY-generated route.

If you're following a route generated by the iWAY and temporary or local conditions make it impossible (or inconvenient) to follow the iWAY's instructions, use your best judgment. Keep driving, and do your best to keep moving toward your destination.

Whenever the iWAY notices that you have left the path it generated for you, it will begin generating a new one, based on your new position. This feature is particularly handy for dealing with temporary or local conditions that interfere with a route. When construction diverts you from the route the iWAY recommended, you'll often find that the iWAY recalculates your route and builds one that matches the official detour.

The most important step in learning how to follow iWAY's routes is practicing. Use the iWAY as often as possible, and pay attention to the way it "thinks." With time, you'll learn exactly how to get the very most out of the navigation provided by this clever little GPS unit.

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Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the factory customer service department for help.

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Government End Users. If the NAVTEQ Data is being acquired by or on behalf of the United States government or any other entity seeking or applying rights similar to those customarily claimed by the United States government, (i) for acquisitions conducted by the Department of Defense, the NAVTEQ Data is licensed with "Limited Rights" in accordance with the rights set forth at DFARS 252.227-7013(b)(3), Technical Data-Noncommercial Items, and NAVTEQ Data delivered or otherwise furnished with "Limited Rights" shall be marked with the following "Limited Rights Notice" set forth at DFARS 252.227-7013(f)(3), and shall be treated in accordance with such Notice:

LIMITED RIGHTS

CONTRACT NO.: _____

CONTRACTOR (MANUFACTURER/ SUPPLIER) NAME: NAVTEQ

Contractor (MANUFACTURER/SUPPLIER) ADDRESS: 222 Merchandise Mart Plaza,
Suite 900, Chicago, Illinois 60654

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and; (ii) for civilian agency acquisitions, the NAVTEQ Data is licensed in accordance with the rights set forth at FAR 52.227-14(g)(1), Rights in Data-General (Protection of limited rights data and computer software). In the event that the Contracting Officer requires the delivery of limited rights NAVTEQ Data that has been withheld or would otherwise be withholdable in accordance with FAR 52.227-14(g)(1), the NAVTEQ Data is licensed with "Limited Rights" as set forth in the following "Limited Rights Notice" at FAR 52.227-14(g)(2) (Alternate II), which shall be affixed to the NAVTEQ Data and the NAVTEQ Data shall be treated in accordance with such Notice (which shall be marked on any reproduction of these data, in whole or in part):

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These data are submitted with limited rights under Government Contract No. _____ (and subcontract _____, if appropriate). These data may be reproduced and used by the Government with the express limitation that they will not, without written permission of the Contractor, be used for purposes of manufacture nor disclosed outside the Government; except that the Government may disclose these data outside the Government for the following purposes, if any, provided that the Government makes such disclosure subject to prohibition against further use and disclosure: There are no additional purposes permitting disclosure of such Data.

The manufacturer/supplier of the Data is NAVTEQ, 222 Merchandise Mart Plaza, Suite 900, Chicago, Illinois 60654.

If the Contracting Officer refuses to use either of the licenses provided in (i) or (ii), herein, the Contracting Officer must notify NAVTEQ prior to seeking additional or alternative rights in the NAVTEQ Data.

LOWRANCE ELECTRONICS

FULL ONE-YEAR WARRANTY

"We," "our," or "us" refers to LOWRANCE ELECTRONICS, INC., the manufacturer of this product. "You" or "your" refers to the first person who purchases this product as a consumer item for personal, family or household use.

We warrant this product against defects or malfunctions in materials and workmanship, and against failure to conform to this product's written specifications, all for one (1) year from the date of original purchase by you. WE MAKE NO OTHER EXPRESS WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER CONCERNING THIS PRODUCT. Your remedies under this warranty will be available so long as you can show in a reasonable manner that any defect or malfunction in materials or workmanship, or any non-conformity with the product's written specifications, occurred within one year from the date of your original purchase, which must be substantiated by a dated sales receipt or sales slip. Any such defect, malfunction, or non-conformity which occurs within one year from your original purchase date will either be repaired without charge or be replaced with a new product identical or reasonably equivalent to this product, at our option, within a reasonable time after our receipt of the product. If such defect, malfunction, or non-conformity remains after a reasonable number of attempts to repair by us, you may elect to obtain without charge a replacement of the product or a refund for the product. THIS REPAIR, OR REPLACEMENT OR REFUND (AS JUST DESCRIBED) IS THE EXCLUSIVE REMEDY AVAILABLE TO YOU AGAINST US FOR ANY DEFECT, MALFUNCTION, OR NON-CONFORMITY CONCERNING THE PRODUCT OR FOR ANY LOSS OR DAMAGE RESULTING FROM ANY OTHER CAUSE WHATSOEVER. WE WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO ANYONE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR OTHER INDIRECT DAMAGE OF ANY KIND.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty does NOT apply in the following circumstances: (1) when the product has been serviced or repaired by anyone other than us; (2) when the product has been connected, installed, combined, altered, adjusted, or handled in a manner other than according to the instructions furnished with the product; (3) when any serial number has been effaced, altered, or removed; or (4) when any defect, problem, loss, or damage has resulted from any accident, misuse, negligence, or carelessness, or from any failure to provide reasonable and necessary maintenance in accordance with the instructions of the owner's manual for the product.

We reserve the right to make changes or improvements in our products from time to time without incurring the obligation to install such improvements or changes on equipment or items previously manufactured.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

REMINDER: You must retain the sales slip or sales receipt proving the date of your original purchase in case warranty service is ever required.

LOWRANCE ELECTRONICS
12000 E. SKELLY DRIVE, TULSA, OK 74128
(800) 324-1356

How to Obtain Service...

...in the USA:

We back your investment in quality products with quick, expert service and genuine Lowrance parts. If you're in the United States and you have technical, return or repair questions, please contact the Factory Customer Service Department. Before any product can be returned, you must call customer service to determine if a return is necessary. Many times, customer service can resolve your problem over the phone without sending your product to the factory. To call us, use the following toll-free number:

800-324-1356

8 a.m. to 5 p.m. Central Standard Time, M-F

Lowrance Electronics may find it necessary to change or end our shipping policies, regulations, and special offers at any time. We reserve the right to do so without notice.

...in Canada:

If you're in Canada and you have technical, return or repair questions, please contact the Factory Customer Service Department. Before any product can be returned, you must call customer service to determine if a return is necessary. Many times, customer service can resolve your problem over the phone without sending your product to the factory. To call us, use the following toll-free number:

800-661-3983

905-629-1614 (not toll-free)

8 a.m. to 5 p.m. Eastern Standard Time, M-F

...outside Canada and the USA:

If you have technical, return or repair questions, contact the dealer in the country where you purchased your unit. To locate a dealer near you, visit our web site, www.lowrance.com and look for the Dealer Locator.

Accessory Ordering Information for all countries

To order Lowrance GPS accessories, please contact:

1) Your local sporting goods, marine, aviation, automobile or consumer electronics store. Most quality dealers that handle outdoor electronic equipment or other consumer electronics should be able to assist you with these items.

To locate a Lowrance dealer near you, visit our web site, and look for the Dealer Locator (www.lowrance.com/support/dealerlocator). Or, you can consult your telephone directory for listings.

2) U.S. customers: LEI Extras Inc., PO Box 129, Catoosa, OK 74015-0129
Call 1-800-324-0045 or visit our web site www.lei-extras.com.

3) Canadian customers can write:

Lowrance/Eagle Canada, 919 Matheson Blvd. E. Mississauga, Ontario L4W2R7 or fax 905-629-3118.

Shipping Information

If it becomes necessary to send a product for repair or replacement, you must first receive a return authorization number from Customer Service. Products shipped without a return authorization will not be accepted. When shipping, we recommend you do the following:

- 1.** Please do not ship the knobs or mounting bracket with your unit.
- 2.** If you are sending a check for repair, please place your check in an envelope and tape it to the unit.
- 3.** For proper testing, include a brief note with the product describing the problem. Be sure to include your name, return shipping address and a daytime telephone number. An e-mail address is optional but useful.
- 4.** Pack the unit in a suitable size box with packing material to prevent any damage during shipping.
- 5.** Write the Return Authorization (RA) number on the outside of the box underneath your return address.
- 6.** For your security, you may want to insure the package through your shipping courier. Lowrance does not assume responsibility for goods lost or damaged in transit.

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